

Highlights

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Tech Tips!

The Newsletter for
Showbiz Pizza
Technicians.
Volume 13•Issue 4
May 1998



Phase II Remodels

Its here...and in some cases it's gone. We need to make sure we are doing or PM's (Preventive Maintenance). This is the key to keeping the guest coming back. It's nice to have all those new games but what will they look like 3 months from now? It's up to you and your team to keep those games in like new condition. Training is a key factor in keeping things like new. Your store needs to be a well-oiled machine running on the track to success. Well-trained people are the key to that success!

Total Eclipse Update

Bobs Space Racer is offering a free update of Black Slewing for the ribbon cable on the crane, if your game doesn't have the Slewing. The Black Slewing is to prevent the spring from rubbing on the plexi glass and scratching it. There is no charge for the Slewing (part #E0032200). However, you will be charged freight if the update is ordered individually.

Bob's Space Racers - 904-677-0761

Emergency Support

New alignment for Regional support.

Midwest Region:

Regional Manager- Gary Spring
Regional Technician:

- Mike Seymour 800-833-4849

Eastern Region:

Regional Manager- Dan Jouppi
Regional Technician:

- Brett Wooten 800-306-2408

Southeast Region:

Regional Manager - Randy Forsythe
Regional Technician:

- Dennis Morgan 800-759-8888
Pin # 1374151

Western Region:

Regional Manager- Mark Flores

Regional Technician:

- Larry Polder 818-350-5403
- Troy Chaney 619-338-7778

Southeast Region:

Regional Manager- Woody Berry

- Contact Your District Tech

Corp Office Emergency After Hours Support

Register Support - 817-870-0744

Technical Support - 817-870-0700

New CEC BBS

We are currently working on a new Chuck E Cheese BBS. The new system will give the Regional Techs access to vital information that we will update from the home office. This would include vendor list, schematics, etc. We can also make this available to Techs that have their own home computer. Please send me a message with any comments you might have about the BBS. The email address is TimsWorld@WriteMe.com. You can also contact me at the home office, my direct line is 972-258-5458.

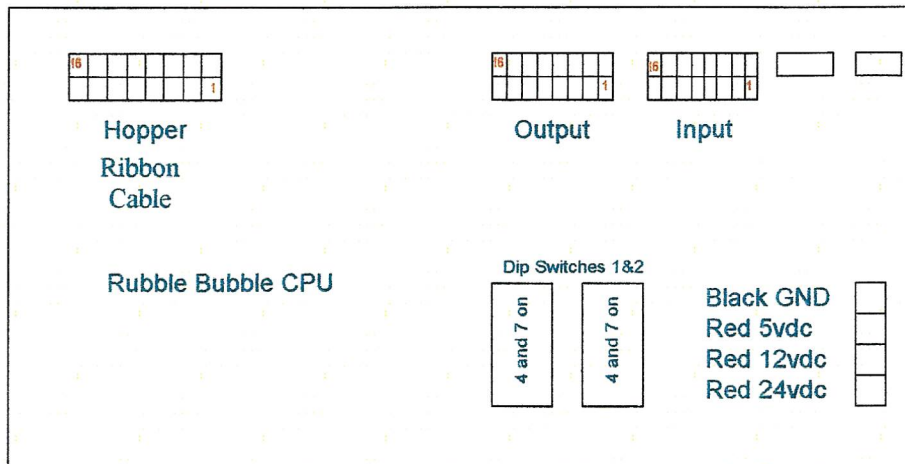
You will be able to use your dial-up networking from Windows 95 and then view the page with Netscape Navigator or Internet Explorer. It will be just like logging onto any other Internet Service Provider.

Super Tech Of The Month



Jim Noll, District Technician for District K has been with the company for seven years. His peers nominated Jim for his outstanding performance and his ability to communicate the basics of the job in simple language. This enables his people to carry out the sometimes-difficult tasks easily. Jim is known for his passion for the business and outgoing attitude to help others. Thanks from all of us Jim...keep up the great work!

Rubble Bubble



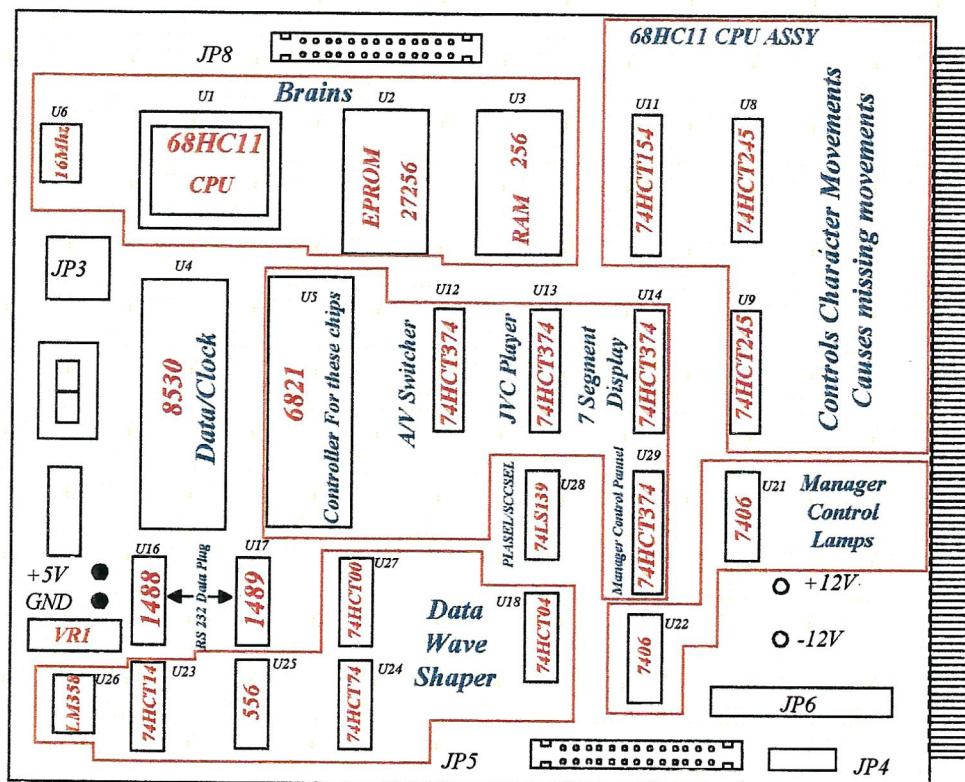
					Hopper Ribbon Cable												
	Pin	Color	Sitting Norm	Hopper Runs	At Coin Up	Sitting Norm	Hopper Running	Coin Up									
Input	5	Rd-Bn	5vdc	Goes Low when ticket is dispensed		Pin 1	0vdc	0vdc	0vdc								
	7	Rd-Gn	5vdc	Goes Low when the game is tilted		2	0vdc	0vdc	0vdc								
	10	Wh	5vdc	Goes Low when a token falls in Hopper		3	0vdc	0vdc	0vdc								
	11	Green	5vdc	5vdc	Low Coin Detector Left	4	0vdc	0vdc	0vdc								
	12	Gray	5vdc	5vdc	Low Coin Detector Center	5	0vdc	0vdc	0vdc								
	13	Pink	5vdc	5vdc	Low Coin Detector Right	6	0vdc	0vdc	0vdc								
	14	Wh-Rd	5vdc	5vdc	Low Bonus Win Left	7	5vdc	5vdc	5vdc								
	15	Blue	5vdc	5vdc	Low Bonus Win Center	8	0vdc	0vdc	0vdc								
	16	Gn-Rd	5vdc	5vdc	Low Bonus Win Right	9	24vdc	24vdc	24vdc								
Output						10	12vdc	12vdc	12vdc								
	3	Pink	0vdc	0vdc	*5vdc Ticket Motor Enable	11	5vdc	Low	Low								
	6	Gy-BI	0vdc	0vdc	0vdc	12	5vdc	Low	Low								
	7	Vi-Rd	12vdc	12vdc	Low Coin Meter Out	<table><tr><td>Title:</td><td>Rubble Bubble</td><td>Drawn by:</td><td>Tim Snelling</td></tr><tr><td>Drawing Number:</td><td>RB9711</td><td>Date:</td><td>11-18-97</td></tr></table>				Title:	Rubble Bubble	Drawn by:	Tim Snelling	Drawing Number:	RB9711	Date:	11-18-97
	Title:	Rubble Bubble	Drawn by:	Tim Snelling													
Drawing Number:	RB9711	Date:	11-18-97														
8	Gy-Bn	12vdc	12vdc	*Low Coin Meter In													
	14	Vi	5vdc	5vdc	Low												
	15	Rd-BI	5vdc	5vdc	5vdc												
* - At Coin-up and then when the hopper runs if you win																	

* - At Coin-up and then when the hopper runs if you win

This should help you get through those rough days when you just can't seem to figure out why that thing just won't work. We have included this drawing to help you understand the inputs and outputs on the board. The drawing shows the condition of the game when it is sitting not coined up, when the hopper is running not coined up and when it actually is coined up.

- - Low means it is at 0 volts.

8HC11 CEC Show CPU



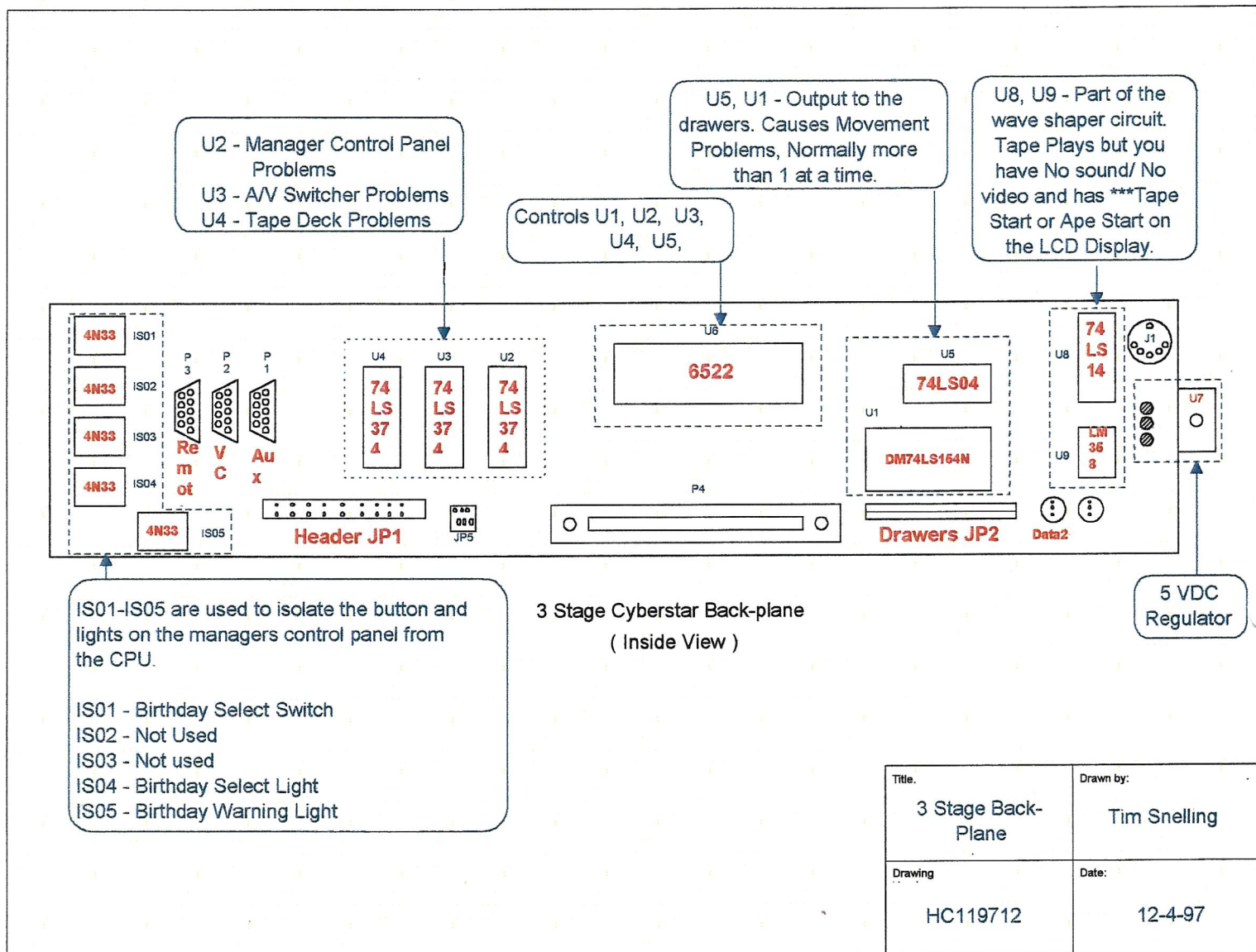
JP5 A/V SWITCHER 26 PIN HEADER
 JP6 TRANSPORT ADAPTER 26 PIN HEADER
 JP8 LCD DISPLAY 26 PIN HEADER

Title:	68HC11	Drawn by:	Tim Snelling
Drawing Number:	CEC9711	Date:	11-25-97

We have included this month a break down of what each area on the board does to help you identify the problems you might be seeing when your show does not work properly. You will be able to repair most problems by installing a 68HC11-chip kit part # 005-0002-40 at a cost of \$10.93.

Pay close attention to the Wave Shaper circuit, this can cause many Data related problems such as tapes not validating or being kicked out while in the middle of play.

3 Stage Show - Cyberstar CPU



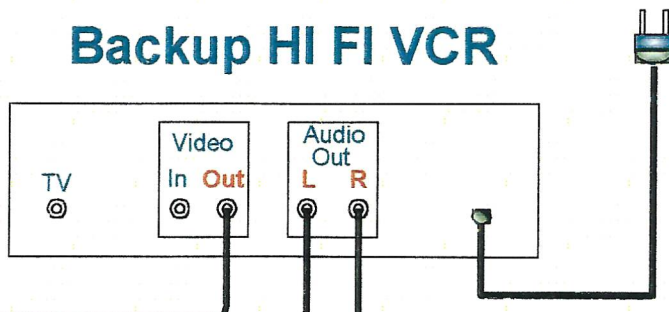
This is the Back-Plane on the Cyberstar 3-Stage Computer. You will find most of your problems will stem from this area. Remove the top and you will be able to see the Back-Plane. This is the board that all the connectors plug into. The chip kit for the 3-Stage Cyberstar Controller is available from the parts department. The part number for the kit is 005-0053-80 and the cost is \$ 9.40. We recommend you keep at least 1 kit in your location at all times.

Hooking up a backup/rental VCR

Parts Needed

Hi Fi Stereo VCR - Local Rental Center
 60 Minute Emergency Backup Tape
 CEC Parts Dept.
 (CEC Show Part # CS-0053-A \$9.20)
 (3-Stage Show Part # CS-0053 \$9.20)
 1 Male RCA to Female BNC Connector
 Radio Shack # 278-250 \$3.29
 1 Phono Plug to 2 Phono Jacks
 Radio Shack # 42-2436 \$2.79

Backup HI FI VCR



Video

Audio

Data

Video 1 Input

Audio Video Switcher

L1
Input

CEC - Connects to the **Molex (J1 Pins 59 & 60)** on the Card Cage.
 3-Stage - Connects to **Data 2** on the Cyberstar computer.

Connects to **Audio In** on the Gameroom Amp
Gameroom Amp

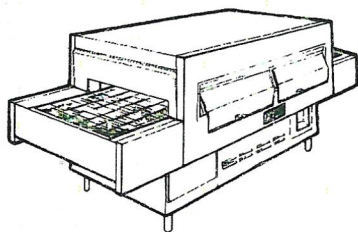
Title:	Drawn
VCR Rental	Tim Snelling
Drawing	Date:
980112ts	1-12-98

In the event your JVC tape deck fails you will need to know how to hook up a HI FI Stereo VCR to your system until the replacement arrives from the corporate office. First, the only tape you will be able to play is your 60 Minute Emergency Backup Tape. There are 2 shows in the system and 2 tapes so it is important you have the right tape. You can order the tape from the corporate office using the numbers from above.

Hook up the new VCR as shown above. To get the tape to work you must first put the computer into VCR adjust. From that point you can push the play button on the front of the backup/rented VCR and it will play. On the CEC show you must push the program button on the managers control panel after putting the computer into VCR adjust before it will play. We have seen HI FI Stereo VCR's on sale at "Best Buy" for as low as \$139.00. This could be a nice investment for the future considering the amount of inconvenience to the guest if your VCR should go down on the weekend.

This backup VCR will provide sound, lights and character movements for the show. If your location has the three-stage show, the parts department has a backup birthday show that will also work in this player. The tape is the emergency backup Birthday Show #CS-0055 and available at a cost of \$8.49. Currently the CEC shows do not have an emergency backup birthday tape.

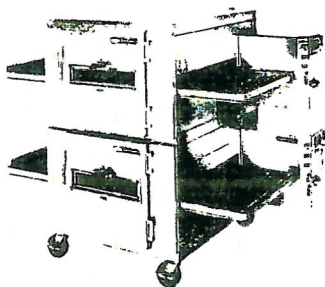
Pizza Ovens Spare Parts List



Below is a list of key spare parts for the Middleby Marshall PS-250 ovens. Parts with a higher frequency of failure should be kept in stock for oven emergencies. Items that are available from Graingers have the Graingers part numbers listed. We recommend that each district carry a complete spare parts kit.

Item	Middleby Part Number	Graingers Part #	Graingers Price	Middleby Price	Higher Frequency
Temperature Controller	DC2003			Call	
Solenoid Valve	28091-0017			\$61.34	Yes
Blower Motor	27381-0015	5K922	\$178.25	\$425.73	
Conveyor Drive Gear Motor	27384-0003			\$401.24	
Burner Blower Motor	27381-0010			\$178.88	Yes
Burner Control Board	22450-0022			\$235.95	Yes
Air Switch	28023-0003	2E462	\$26.90	\$86.83	
Conveyor Drive Motor Brushes (Set)	22450-0052			\$15.05	
Thermocouple	48019-0027			\$82.01	Yes
Dart Speed Control	28074-0022			\$425.04	
Burner Blower Motor Mounting Grommets	22450-0059			\$19.00	Yes
Burner Electrode Assembly	27141-0003			\$47.75	Yes
Cooling Fan	46549/46550	4C549	\$20.20	\$18.37	Yes
Blower Belt	22181-0006	5L320	\$6.78	\$16.20	
Fan Power Cord	46552	4C552	\$1.14	\$1.88	

Prices current as of this writing.



Below is a list of Key spare parts for the Lincoln Impinger model 1000 series gas oven. You will notice that there are no part numbers listed. The actual part numbers will be determined by the model number and the serial number of each oven.

If you have any questions about any of these parts or if you need to obtain a service manual, please contact Lincoln Foodservice Products at 219-432-9511.

Potentiometer	DC Motor Control
Burner Blower Motor	Flame Sensor
Main Fan Motor	Main Relay
10amp Fuse	Tach. Generator
3amp Fuse	Coupling and Encoding Disc.
Fuse Holder	